□ Generate Collection Print

- L6: Entry 1 of 1   File: USPT   Dec 4, 2001

US-PAT-NO: 6327522
DOCUMENT-IDENTIFIER: US 6327522 B1

TITLE: Display apparatus for vehicle

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kojima; Koichi	Hiroshima-ken			JP
Uemura; Hiroki	Hiroshima-ken			JP
Sasaki; Hidekazu	Hiroshima-ken			JP
Doi; Ayumu	Hiroshima-ken			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mazda Motor Corporation	Hiroshima-ken			JP	03

APPL-NO: 09/ 596860   [PALM]
DATE FILED: June 19, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-253309	September 7, 1999
JP	11-253310	September 7, 1999
JP	11-253313	September 7, 1999

INT-CL: [07] G09 G 5/00, G06 G 7/78

US-CL-ISSUED: 701/1; 701/96, 701/300, 348/115
US-CL-CURRENT: 701/1; 348/115, 701/300, 701/96

FIELD-OF-SEARCH: 701/1, 701/96, 701/300, 701/301, 701/28, 340/903, 340/937,
340/943, 340/435, 340/436, 348/115, 348/118, 348/119

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected   Search ALL   Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL

☐	4833469	May 1989	David	340/901
☐	5646639	July 1997	Koie	345/7
☐	5661454	August 1997	Bezard et al.	340/461
☐	5793308	August 1998	Rosinski et al.	340/903
☐	5821867	October 1998	Angell et al.	340/815.45
☐	5883739	March 1999	Ashihara et al.	359/462
☐	5983161	November 1999	Lemelson et al.	701/301
☐	6014608	January 2000	Seo	701/207
☐	6072391	June 2000	Suzuki	340/468
☐	6108031	August 2000	King et al.	348/118

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
60231193	November 1985	JP	
6247184	September 1994	JP	
10148537	June 1998	JP	
10230805	September 1998	JP	

ART-UNIT: 361

PRIMARY-EXAMINER: Nguyen; Tan

ASSISTANT-EXAMINER: Tran; Dalena

ATTY-AGENT-FIRM: Brooks & Kushman P.C.

ABSTRACT:

In a display apparatus for a vehicle, when an auto mode is selected, an obstacle closest to the vehicle is determined on the basis of data that represents an output signal from an obstacle sensor, the determined obstacle and a radiation heat source (pixel group) included in an image sensed by an infrared light camera are associated with each other, and only an image corresponding to the obstacle closest to the vehicle is displayed on a display (FIG. 2, S5-S7).

18 Claims, 34 Drawing figures

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☐ ▒▒▒ Generate Collection ▒▒▒   Print

L6: Entry 1 of 1   File: USPT   Dec 4, 2001

DOCUMENT-IDENTIFIER: US 6327522 B1
TITLE: Display apparatus for vehicle

Application Filing Date (1):
20000619

Detailed Description Text (111):
As an example of the processing in this step, the CPU 101 estimates the traveling direction of the vehicle (predicted route along which the vehicle is expected to travel) on the basis of data representing the output signals from the vehicle velocity sensor 24 and steering angle sensor 25 acquired in step S125, and compares position data obtained by coordinate conversion of the position data of the obstacle detected by the obstacle sensor 22 in the previous control period onto the coordinate system of the estimated traveling route, and the position data of that obstacle acquired in step S125 in the current control period.

Detailed Description Text (112):
As a result of comparison, if the two position data on that coordinate system indicate an identical location, it can be determined that the obstacle stands still; if they indicate different locations, it can be determined that the obstacle is moving. Furthermore, if the obstacle is moving, the CPU 101 checks if the direction of a velocity vector represented by these two position data is approaching the traveling route computed in this step, thus determining if the obstacle and vehicle are moving in directions in which they relatively approach each other.

Current US Original Classification (1):
701/1

L9: Entry 6 of 9   File: USPT   Jul 19, 1994

US-PAT-NO: 5331561
DOCUMENT-IDENTIFIER: US 5331561 A

TITLE: Active cross path position correlation device

DATE-ISSUED: July 19, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barrett; William A.	Shorewood	MN		
Krantz; Donald G.	Eden Prairie	MN		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Alliant Techsystems Inc.	Hopkins	MN			02

APPL-NO: 07/ 872497   [PALM]
DATE FILED: April 23, 1992

INT-CL: [05] G06G 7/64, G08G 1/16

US-CL-ISSUED: 364/447; 364/424.01, 364/460, 342/95, 340/903
US-CL-CURRENT: 701/205; 340/903, 342/95, 701/1, 701/300, 701/96

FIELD-OF-SEARCH: 364/447, 364/424.02, 364/460, 364/461, 364/443, 342/29, 342/41,
342/455, 342/456, 342/95, 180/170, 340/901, 340/902, 340/903

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4328545	May 1982	Halsall et al.	364/424.02
☐	4578757	March 1986	Stark	364/461
☐	4626995	December 1986	Lofgren et al.	364/424
☐	4703429	October 1987	Sakata	364/426
☐	4757450	July 1988	Etoh	364/426
☐	4802096	January 1989	Hainsworth et al.	364/461
☐	4853863	August 1989	Cohen et al.	364/460

☐	4855915	August 1989	Dallaire	364/424.02
☐	4905151	February 1990	Weiman et al.	364/424.02
☐	4939651	July 1990	Onishi	364/424.02
☐	5053979	October 1991	Etoh	364/565
☐	5155684	October 1992	Burke et al.	364/424.02
☐	5163004	November 1992	Rentz	364/460

ART-UNIT: 234

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Nguyen; Tan Q.

ATTY-AGENT-FIRM: Merchant, Gould, Smith, Edell, Welter & Schmidt

ABSTRACT:

A system guides a vehicle along a predefined path by correlating vehicle side range profiles. A lead vehicle gathers side range data using active radiation sources such as light emitting diodes. A microprocessor-based system on board the lead vehicle stores the data into records of a database file, tagging each record to indicate a relative position along the path when the lead vehicle obtained the data. A system on board a follower vehicle gathers its own side range data and also generates a side range profile for the follower vehicle. The follower vehicle's system receives by radio communication the side range profiles from the lead vehicle and, using the tagging information, correlates these profiles with the follower vehicle side range profiles at appropriate points along the path. As a result of the correlation, the follower vehicle's system outputs commands to actuators coupled to the vehicle's steering system, throttle, and braking system to control the vehicle's motion so that the vehicle traverses the predefined path.

28 Claims, 11 Drawing figures

Hit List

Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 6487495 B1

L9: Entry 1 of 9   File: USPT   Nov 26, 2002
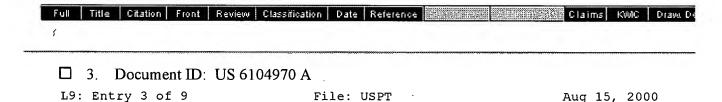
US-PAT-NO: 6487495
DOCUMENT-IDENTIFIER: US 6487495 B1

TITLE: Navigation applications using related location-referenced keywords

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 2. Document ID: US 6282460 B1

L9: Entry 2 of 9   File: USPT   Aug 28, 2001

US-PAT-NO: 6282460
DOCUMENT-IDENTIFIER: US 6282460 B1

TITLE: Method for programming a robot using a pendant controller

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 3. Document ID: US 6104970 A

L9: Entry 3 of 9   File: USPT   Aug 15, 2000

US-PAT-NO: 6104970
DOCUMENT-IDENTIFIER: US 6104970 A

TITLE: Crawler inspection vehicle with precise mapping capability

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 4. Document ID: US 5798627 A

L9: Entry 4 of 9   File: USPT   Aug 25, 1998

US-PAT-NO: 5798627
DOCUMENT-IDENTIFIER: US 5798627 A

TITLE: Method for simultaneous operation of robot welders

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 5. Document ID: US 5526260 A

L9: Entry 5 of 9   File: USPT   Jun 11, 1996

US-PAT-NO: 5526260
DOCUMENT-IDENTIFIER: US 5526260 A

TITLE: Device executing intervisibility calculation

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 6. Document ID: US 5331561 A

L9: Entry 6 of 9   File: USPT   Jul 19, 1994

US-PAT-NO: 5331561
DOCUMENT-IDENTIFIER: US 5331561 A

TITLE: Active cross path position correlation device

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 7. Document ID: US 5161405 A

L9: Entry 7 of 9   File: USPT   Nov 10, 1992

US-PAT-NO: 5161405
DOCUMENT-IDENTIFIER: US 5161405 A

TITLE: Clutch pedal positon sensor continuous calibration

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 8. Document ID: US 4882697 A

L9: Entry 8 of 9   File: USPT   Nov 21, 1989

US-PAT-NO: 4882697
DOCUMENT-IDENTIFIER: US 4882697 A

TITLE: Stabilization control circuit for vertical position in an inertial navigator

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 9. Document ID: US 3946364 A

L9: Entry 9 of 9   File: USPT   Mar 23, 1976

US-PAT-NO: 3946364
DOCUMENT-IDENTIFIER: US 3946364 A

TITLE: Method and apparatus for sensing, storing, and graphically displaying over-temperature conditions of jet engines

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
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Search Results - Record(s) 1 through 10 of 12 returned.

☐ 1. Document ID: US 20030222820 A1

Using default format because multiple data bases are involved.

L11: Entry 1 of 12   File: PGPB   Dec 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030222820
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030222820 A1

TITLE: Wireless location using hybrid techniques

PUBLICATION-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: 342/457

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D: |

☐ 2. Document ID: US 20030209893 A1

L11: Entry 2 of 12   File: PGPB   Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030209893
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030209893 A1

TITLE: Occupant sensing system

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Breed, David S.	Boonton Township	NJ	US	
DuVall, Wilbur E.	Kimberling City	MO	US	
Johnson, Wendell C.	Signal Hill	CA	US	

US-CL-CURRENT: 280/735; 701/45

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |`

☐ 3.   Document ID: US 20030191507 A1

L11: Entry 3 of 12   File: PGPB   Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030191507
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030191507 A1

TITLE: Wheel-less walking support and rehabilitation device

PUBLICATION-DATE: October 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Simmons, John Castle	Germantown	TN	US	

US-CL-CURRENT: 607/48; 607/47, 607/49

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |`

☐ 4.   Document ID: US 20030187577 A1

L11: Entry 4 of 12   File: PGPB   Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187577
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030187577 A1

TITLE: Vehicle navigation system and method for swathing applications

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
McClure, John A.	Scottsdale	AZ	US	
Collins, Dennis M.	Gilbert	AZ	US	
Heiniger, Richard W.	Parkville	MO	US	

US-CL-CURRENT: 701/213; 701/207, 701/50

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |`

☐ 5.   Document ID: US 20030167121 A1

L11: Entry 5 of 12   File: PGPB   Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030167121

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030167121 A1

TITLE: Electronic compass system

PUBLICATION-DATE: September 4, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ockerse, Harold C.	Holland	MI	US	
Bechtel, Jon H.	Holland	MI	US	
Bugno, Mark D.	Stevensville	MI	US	

US-CL-CURRENT: 701/224; 33/356, 33/357

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 6.   Document ID: US 20030156141 A1

L11: Entry 6 of 12   File: PGPB   Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030156141
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030156141 A1

TITLE: Methods and systems for navigating a workspace

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Good, Lance E.	Cupertino	CA	US	
Stefik, Mark J.	Portola Valley	CA	US	

US-CL-CURRENT: 715/810

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 7.   Document ID: US 20030146871 A1

L11: Entry 7 of 12   File: PGPB   Aug 7, 2003

PGPUB-DOCUMENT-NUMBER: 20030146871
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030146871 A1

TITLE: Wireless location using signal direction and time difference of arrival

PUBLICATION-DATE: August 7, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Karr, Charles L.	Tuscaloosa	AL	US	
Dupray, Dennis J.	Golden	CO	US	

US-CL-CURRENT: <u>342/457</u>; <u>342/465</u>, <u>455/404.2</u>, <u>455/456.5</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   8.   Document ID: US 20030078706 A1

L11: Entry 8 of 12   File: PGPB   Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030078706
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030078706 A1

TITLE: Methods and systems for <u>navigating</u> under water

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Larsen, Mikael Bliksted	London		GB	

US-CL-CURRENT: <u>701/21</u>; <u>701/217</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   9.   Document ID: US 20020177950 A1

L11: Entry 9 of 12   File: PGPB   Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177950
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020177950 A1

TITLE: Satellite based on-board vehicle <u>navigation</u> system including predictive
filtering and map-matching to reduce errors in a vehicular position

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Davies, F. Bryan	Vienna	VA	US	

US-CL-CURRENT: <u>701/213</u>; <u>340/988</u>, <u>342/357.08</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   10.   Document ID: US 20020098851 A1

PGPUB-DOCUMENT-NUMBER: 20020098851
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020098851 A1

TITLE: Method and system for validating a mobile station location fix

PUBLICATION-DATE: July 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Walczak, Thomas J.	Woodstock	IL	US	
Alberth, William P. JR.	Crystal Lake	IL	US	

US-CL-CURRENT: 455/456.5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Terms	Documents
L10 and navigat$	12

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Search Results - Record(s) 11 through 12 of 12 returned.

☐ 11. Document ID: US 20020015042 A1

Using default format because multiple data bases are involved.

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L11: Entry 11 of 12                    File: PGPB           Feb 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020015042
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020015042 A1

TITLE: Visual content browsing using rasterized representations

PUBLICATION-DATE: February 7, 2002

INVENTOR-INFORMATION:
NAME                         CITY        STATE      COUNTRY      RULE-47
Robotham, John S.            Belmont     MA         US
Johnson, Charles Lee         Newton      MA         US
Weiss, Howard P.             Newton      MA         US

US-CL-CURRENT: 345/581
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 12. Document ID: US 20010022558 A1

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L11: Entry 12 of 12                    File: PGPB           Sep 20, 2001

PGPUB-DOCUMENT-NUMBER: 20010022558
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010022558 A1

TITLE: Wireless location using signal fingerprinting

PUBLICATION-DATE: September 20, 2001

INVENTOR-INFORMATION:
NAME                         CITY        STATE      COUNTRY      RULE-47
Karr, Charles L. JR.         Tuscaloosa  AL         US
Dupray, Dennis J.            Denver      CO         US

US-CL-CURRENT: 342/450; 455/456.5
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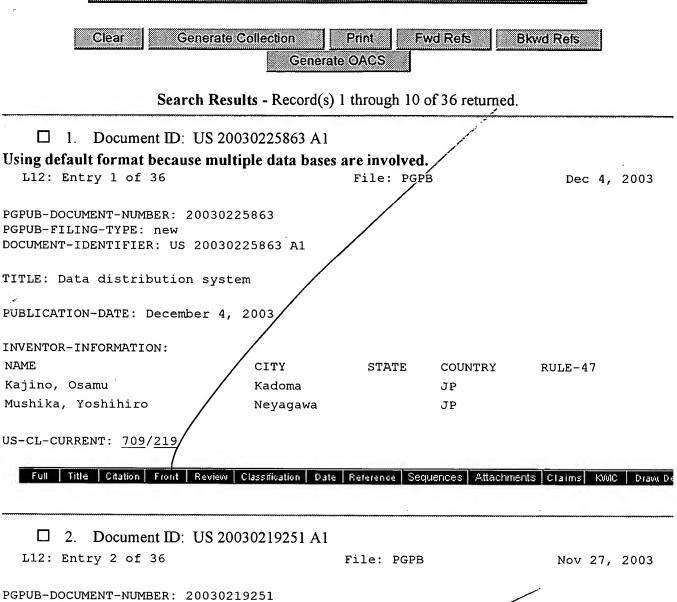
| # Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

Clear   **Generate Collection**   **Print**   **Fwd Refs**   **Bkwd Refs**   **Generate OACS**

Terms	Documents
L10 and navigat$	12

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Search Results - Record(s) 1 through 10 of 36 returned.

☐ 1.   Document ID: US 20030225863 A1

Using default format because multiple data bases are involved.

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   L12: Entry 1 of 36                      File: PGPB            Dec 4, 2003


PGPUB-DOCUMENT-NUMBER: 20030225863
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030225863 A1


TITLE: Data distribution system


PUBLICATION-DATE: December 4, 2003


INVENTOR-INFORMATION:
NAME                          CITY           STATE       COUNTRY      RULE-47
Kajino, Osamu                 Kadoma                     JP
Mushika, Yoshihiro            Neyagawa                   JP


US-CL-CURRENT: 709/219
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 2.   Document ID: US 20030219251 A1

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   L12: Entry 2 of 36                      File: PGPB           Nov 27, 2003


PGPUB-DOCUMENT-NUMBER: 20030219251
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030219251 A1


TITLE: Wireless optical system and method for point-to-point high bandwidth
communications


PUBLICATION-DATE: November 27, 2003


INVENTOR-INFORMATION:
NAME                          CITY           STATE       COUNTRY      RULE-47
McMurry, Sam Eric             Richardson     TX          US
Littlejohn, Harry             Highland Village  TX       US


US-CL-CURRENT: 398/58
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`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D`

☐ 3. Document ID: US 20030218537 A1

L12: Entry 3 of 36   File: PGPB   Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030218537
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030218537 A1

TITLE: Interactive modular system

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hoch, David	Watertown	MA	US	
Lang, Andrew Kennedy	Sherborn	MA	US	

US-CL-CURRENT: 340/524; 434/323

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D`

☐ 4. Document ID: US 20030142750 A1

L12: Entry 4 of 36   File: PGPB   Jul 31, 2003

PGPUB-DOCUMENT-NUMBER: 20030142750
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030142750 A1

TITLE: Edge detection based on variable-length codes of block coded video

PUBLICATION-DATE: July 31, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Oguz, Seyfullah H.	Shrewsbury	MA	US	
Sezer, Ugur	Shrewsbury	MA	US	

US-CL-CURRENT: 375/240.18; 375/240.23, 375/240.24

`| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D`

☐ 5. Document ID: US 20030134712 A1

L12: Entry 5 of 36   File: PGPB   Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134712

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030134712 A1

TITLE: Method of controlling hydraulic pressure in speed change mechanism having hydraulic clutch

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Katou, Katsunori	Osaka		JP	
Matsufuji, Mizuya	Hyogo		JP	

US-CL-CURRENT: <u>477/70</u>; <u>477/115</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 6.   Document ID: US 20030091017 A1

L12: Entry 6 of 36   File: PGPB   May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030091017
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030091017 A1

TITLE: Method for data exchange with a mobile asset considering communication link quality

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Davenport, David M.	Niskayuna	NY	US	
Laguer-Diaz, Juan	San Juan	PR	US	
Gary, Robert A.	Erie	PA	US	

US-CL-CURRENT: <u>370/338</u>; <u>370/476</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 7.   Document ID: US 20030084042 A1

L12: Entry 7 of 36   File: PGPB   May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084042
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030084042 A1

TITLE: Evaluating potential for success in sports based on comparisons between genomic sequences

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY   RULE-47
Garner, Gene M. II   Germantown   MD   US

US-CL-CURRENT: 707/5

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 8.   Document ID: US 20030072374 A1

L12: Entry 8 of 36   File: PGPB   Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030072374
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030072374 A1

TITLE: Method for motion vector estimation

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY   RULE-47
Sohm, Oliver P.   McKinney   TX   US

US-CL-CURRENT: 375/240.16; 375/240.08

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 9.   Document ID: US 20030070120 A1

L12: Entry 9 of 36   File: PGPB   Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030070120
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030070120 A1

TITLE: Method and system for managing software testing

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:
NAME   CITY   STATE   COUNTRY   RULE-47
Michael, Gartner Jason   Richmond Hill   CA
Paternostro, Luiz Marcelo Aucelio Markham   CA
Sluiman, Harm   Scarborough   CA

US-CL-CURRENT: 714/38

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐   10.   Document ID: US 20030059111 A1

L12: Entry 10 of 36   File: PGPB   Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030059111
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030059111 A1

TITLE: Scanning and detecting a number of images

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Druitt, Colin Eric	North Rocks		AU	
Gallagher, Matthew William	North Ryde		AU	

US-CL-CURRENT: 382/173, 358/527, 358/538, 382/282

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

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IBM Technical Disclosure Bulletins

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Search History

DATE: Wednesday, November 17, 2004   Printable Copy   Create Case

Set Name side·by·side	Query	Hit Count	Set Name result set
	DB=PGPB,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
L12	l10 not L11	36	L12
L11	L10 and navigat$	12	L11
L10	(compar$ with (recent$ or current$) with (previous or prior) with (location or position or coordinat$)) and @pd<=20031208 and (forecast$ or predict$)	48	L10
	DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR		
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L8	L5 not l6	5	L8
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L6	L5 and (forecast$ or predict$)	1	L6
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L4	(compar$ with (previous or prior) with (location or position or coordinat$)) and l3	15	L4

L3	L2 and 701/?.ccls.	322	L3
L2	(compar$ with (location or position or coordinat$)) and @ad<=20031208	150366	L2
L1	(compar$ with (location or position or coordinat$)) and 2Ad<=20031208	150415	L1

END OF SEARCH HISTORY

PUBLICATION-DATE: December 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Knox, David	Point Roberts	WA	US	
Emanuel, Josh	Wayne	NJ	US	

US-CL-CURRENT: 705/39; 705/38

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   21.   Document ID: US 20020176579 A1

L12: Entry 21 of 36   File: PGPB   Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020176579
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020176579 A1

TITLE: Location-based services using wireless hotspot technology

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Deshpande, Nikhil M.	Beaverton	OR	US	
Reddy, Ramgopal K.	Portland	OR	US	
Chen, Timothy	Portland	OR	US	
Dohrmann, Stephen	Hillsboro	OR	US	
Knauerhase, Robert C.	Portland	OR	US	

US-CL-CURRENT: 380/270

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   22.   Document ID: US 20020131500 A1

L12: Entry 22 of 36   File: PGPB   Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020131500
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020131500 A1

TITLE: Method for determining a motion vector for a video signal

PUBLICATION-DATE: September 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gandhi, Bhavan R.	Vernon Hills	IL	US	

☐ 33. Document ID: DE 69533262 E, WO 9613951 A1, AU 9538189 A, US 5572221 A, EP 788720 A1, FI 9701778 A, MX 9702942 A1, AU 694575 B, KR 97707693 A, JP 10513016 W, RU 2141738 C1, MX 195045 B, CN 1170493 A, KR 361122 B, EP 788720 B1

L12: Entry 33 of 36   File: DWPI   Aug 19, 2004

DERWENT-ACC-NO: 1996-239783
DERWENT-WEEK: 200455
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TITLE: Detecting and predicting motion of mobile terminals esp cellular telephones - comparing current sequence of terminal including present and previous locations with several stored sequences which include previous locations

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 34. Document ID: EP 624034 A1, DE 3856494 G, CA 1336619 C, EP 288963 B1

L12: Entry 34 of 36   File: DWPI   Nov 9, 1994

DERWENT-ACC-NO: 1994-343579
DERWENT-WEEK: 200176
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TITLE: Inter-frame coding and decoding appts. for motion image signals - uses dynamic vector quantiser with coding section and decoding section

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 35. Document ID: EP 298475 A, DE 3876157 G, EP 298475 B1, US 4982297 A

L12: Entry 35 of 36   File: DWPI   Jan 11, 1989

DERWENT-ACC-NO: 1989-009565
DERWENT-WEEK: 198902
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TITLE: Feedback control system positioning magnetic head of floppy disk unit - uses mathematical algorithms to compensate for tracking error due to noise or disk corruption

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 36. Document ID: EP 288963 A, AU 8815205 A, AU 8947101 A, AU 8947102 A, AU 9172893 A, AU 9172894 A, AU 9172895 A, CA 1336619 C, DE 3854445 G, EP 288963 A3, EP 288963 B1, JP 01018382 A, JP 01034066 A, JP 01034087 A, JP 01105681 A, JP 01174182 A, JP 63269882 A, JP 63310292 A, US 4933761 A

L12: Entry 36 of 36   File: DWPI   Nov 2, 1988

L8: Entry 3 of 5   File: USPT   Jun 3, 2003

DOCUMENT-IDENTIFIER: US 6573888 B2
TITLE: Image control system controlling traffic of a mobile body, such as an aircraft

Application Filing Date (1):
20001207

Brief Summary Text (17):
Herein, the image on the display screen may be watched as a plurality of reduced viewing area images from the angle positions in comparison with that watched from the front position. In this case, the image modifying means comprises storage means for storing the reduced viewing area images, selecting means for successively selecting the reduced viewing area images on the basis of the position information as a selected viewing area image, and means for producing the selected viewing area image as the modified image.

Detailed Description Text (6):
Referring to FIG. 2 in addition to FIG. 1, the above-operation will be described more in detail. In FIG. 2, the position of the air traffic controller is detected as position data at a step A1 by the magnetic three dimensional position sensor 1 (step A1). The detected position data or information is transmitted as a current position detection signal to the display renewal judgement portion 2 and is stored therein (step A2). The display renewal judgement portion 2 stores a previous position detection signal concerned with a previous position of the air traffic controller. Under the circumstances, the display renewal judgement portion 2 calculates an amount of movement of the air traffic controller by comparing both the previous position detection signal with the current position detection signal and produces a movement amount signal d representative of a difference or deviation between the previous and the current positions (step A3).

Detailed Description Text (9):
When the current comparison result signal is identical with the previous comparison result signal, the air traffic controller does not move from a previous position, namely, is in the stationary state by the display renewal judgement portion 2, processing is returned back to the step A3, as shown in FIG. 2. In consequence, the next following movement amount is calculated by the display renewal judgement portion 2.

Detailed Description Text (18):
Herein, it is often preferable that the image on the screen seen from a plurality of angle positions is identical with the image seen from the predetermined front position. On the other hand, when the image is seen from an inclined position, a visible image area on the screen is reduced in comparison with the image area seen from the front position of the screen. Alternatively, it is preferable that the air traffic information displayed as the image would be changed to another information with reference to the position of the air traffic controller.

Detailed Description Text (20):
The second memory 42 stores a shaped image of the newest air traffic control information in consideration of the case where the image on the screen is reduce

when the image is watched from an oblique <u>position in comparison</u> with that seen from the front <u>position</u>. The shaped image may be reduced in an amount of information and may be prepared at every angle. As a result, the shaped image is displayed as a reduced viewing area image. At any rate, the second memory 42 is operable to compensate for a reduction of a display areas of the display portion 5 in cooperation with the processing unit 44. In this case, the processing unit 44 is helpful to select the reduced viewing area image and to send the same to the display portion 5 and a combination of the second memory 42 and the processing unit 44 may be called a second circuit.

<u>Current US Cross Reference Classification</u> (6):
<u>701/3</u>

CLAIMS:

12. An image control system as claimed in claim 10, the image on the display screen being watched as a plurality of reduced viewing area images from the angle <u>positions in comparison</u> with that watched from the front <u>position,</u> wherein the image modifying means comprises: storage means for storing the reduced viewing area images; and selecting means for successively selecting the reduced viewing area images on the basis of the position information as a selected viewing area image; and means for producing the selected viewing area image as the modified image.

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L8: Entry 3 of 5   File: USPT   Jun 3, 2003

US-PAT-NO: 6573888
DOCUMENT-IDENTIFIER: US 6573888 B2

TITLE: Image control system controlling traffic of a mobile body, such as an
aircraft

DATE-ISSUED: June 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hayashi; Keiko	Tokyo			JP
Shiomi; Kakuichi	Tokyo	.		JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
NEC Corporation	Tokyo			JP	03
Electronic Navigation Research Institute, Independent Administrative Institution	Tokyo			JP	03

APPL-NO: 09/ 731583   [PALM]
DATE FILED: December 7, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	11-348349	December 8, 1999

INT-CL: [07] G09 G 3/36, G09 G 5/08, G01 S 3/02, G05 D 1/00

US-CL-ISSUED: 345/204; 345/97, 345/109, 345/156, 345/158, 342/455, 701/3
US-CL-CURRENT: 345/204; 342/455, 345/109, 345/156, 345/158, 345/97, 701/3

FIELD-OF-SEARCH: 345/97, 345/98, 345/109, 345/156, 345/158, 345/204, 345/507,
345/515, 345/516, 345/841, 348/36, 348/39, 348/51, 700/79, 340/468, 340/961,
342/53, 342/455, 367/68-72, 701/1-16

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected   Search ALL   Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4592053	May 1986	Matsuura	700/79

☐	4914734	April 1990	Love et al.	342/53
☐	5732384	March 1998	Ellert et al.	345/841
☐	5742331	April 1998	Uomori et al.	345/156
☐	6314362	November 2001	Erzberger et al.	340/961
☐	6411874	June 2002	Morgan et al.	340/468

ART-UNIT: 2673

PRIMARY-EXAMINER: Shalwala; Bipin

ASSISTANT-EXAMINER: Dharia; Prabodh

ATTY-AGENT-FIRM: Dickstein, Shapiro, Morin & Oshinsky, LLP.

ABSTRACT:

In an air traffic control system for controlling aircraft a three-dimensional
position is provided to monitor a position of an air traffic controller. An image
is displayed on a display portion with reference to the position of the controller.
The image displayed on the display portion always appears in a front image
regardless of the position of the controller or may be selected to be displayed on
a selected area of the display portion determined by the position of the
controller.

20 Claims, 5 Drawing figures

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Search Results - Record(s) 1 through 5 of 5 returned.

☑ 1. Document ID: US 6813545 B2

L8: Entry 1 of 5   File: USPT   Nov 2, 2004

US-PAT-NO: 6813545
DOCUMENT-IDENTIFIER: US 6813545 B2

TITLE: Automatic traffic sign recognition

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 2. Document ID: US 6587040 B2

L8: Entry 2 of 5   File: USPT   Jul 1, 2003

US-PAT-NO: 6587040
DOCUMENT-IDENTIFIER: US 6587040 B2

TITLE: Emergency call system provided with theftproof function

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 3. Document ID: US 6573888 B2

L8: Entry 3 of 5   File: USPT   Jun 3, 2003

US-PAT-NO: 6573888
DOCUMENT-IDENTIFIER: US 6573888 B2

TITLE: Image control system controlling traffic of a mobile body, such as an aircraft

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐ 4. Document ID: US 6519527 B2

L8: Entry 4 of 5   File: USPT   Feb 11, 2003

US-PAT-NO: 6519527
DOCUMENT-IDENTIFIER: US 6519527 B2

TITLE: Navigation assisting system, flight-route calculating method, and navigation assisting method

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

☐ 5. Document ID: US 5719566 A

L8: Entry 5 of 5   File: USPT   Feb 17, 1998

US-PAT-NO: 5719566
DOCUMENT-IDENTIFIER: US 5719566 A

TITLE: Method and apparatus for detecting dormant actuator failure

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

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L9: Entry 1 of 9   File: USPT   Nov 26, 2002

DOCUMENT-IDENTIFIER: US 6487495 B1
TITLE: Navigation applications using related location-referenced keywords

Application Filing Date (1):
20000602

Detailed Description Text (158):
Entire classes of keywords can be registered this way. For example, a police
reporting system for accident reports can reserve a class of keywords "PATROL_001",
"PATROL_002", etc. These keywords are not associated at the time of registration
but are reserved. Then, when a police patrol responds to accident reports, the
location of each accident is associated with one of the reserved keywords. A
navigation system or GPS system in the police officer's vehicle may be used to
automatically send the accident location to the keyword service provider so that
the location can automatically be associated with the next available reserved
keyword. Indicating locations in this manner has numerous advantages compared to
prior methods in which the police office physically wrote down accident locations.

Current US Cross Reference Classification (5):
701/3

□ Generate Collection   Print

L9: Entry 6 of 9   File: USPT   Jul 19, 1994

DOCUMENT-IDENTIFIER: US 5331561 A
TITLE: Active cross path position correlation device

Application Filing Date (1):
19920423

Brief Summary Text (8):
A ring laser gyro system, developed by Honeywell, Inc. Systems and Research Center
in cooperation with the Advanced Systems Center of Honeywell's Defense Systems
Division, determined waypoints along a driven path using a ring-laser-gyro-based
inertial navigator. During a training drive by a vehicle, the system recorded the
waypoints. After the completion of the learning path drive, the vehicle retraced
the learned path by comparing its real-time, inertially-derived location with the
previously recorded waypoints. The system caused the vehicle to move in a direction
so as to minimize the difference obtained by the comparison. This system had a
typical error of approximately one foot over a path of approximately 1000 feet and
suffered from an unbounded error growth.

Brief Summary Text (13):
The present invention solves the problems described above by utilizing correlation
techniques to compare position data gathered by a follower (subsequent) vehicle
with position data received from a lead (initial) vehicle and to control the
follower vehicle based upon the results of this correlation so that it tracks the
lead vehicle's path. The lead vehicle gathers position data using on-board active
radiation sources, such as light emitting diodes, as it traverses a road. A system
on-board the lead vehicle creates a data file of this position information and tags
each record in the data file to indicate the relative position along the road at
which the lead vehicle gathered the data. The lead vehicle's system transmits the
data to a follower vehicle.

Brief Summary Text (14):
The follower vehicle gathers its own position information and its system compares
this information with the position information in the data file sent by the lead
vehicle. The tagging of the records indicates to the follower the time (location)
at which the system should correlate gathered position data with position data in a
particular record of the data file. The follower vehicle's system continuously
correlates gathered data with received position data to control the follower
vehicle so that it tracks the lead vehicle along the desired path. This continuous
process of correlation prevents both large position errors and the increasing of
position errors over time.

Detailed Description Text (28):
FIG. 6 is a flow chart showing a preferred sequence of operations for recording a
side range profile of the follower vehicle. The sequence of operations is similar
to the lead vehicle's side range profile generation. The follower vehicle's system
also operates at a typical frequency of 100 Hz, which is a sufficiently high rate
to avoid missing small objects. At step 220, the system measures the distance
between the follower vehicle and objects on one or more sides of the vehicle. At
step 221, the system estimates along-path position using an odometer or other type
of position sensor. The system compares the new gathered position data with

previous position data at step 222, and, if necessary, stores the new position data at step 223.

Detailed Description Text (40):
The alternate embodiment requires the following modifications to the embodiment described above to replay a path recorded at a previous time. First, the lead vehicle, which is now the recording vehicle, should save its estimate of speed at each recorded data point, in addition to the other parameters described above. For each recorded data point, the follower vehicle's desired speed will preferably be the speed of the recording vehicle at the same point along the path. Second, a more sophisticated clutter-rejection filter should be used with the data gathering sensors to ignore new or missing objects in a relatively uncontrolled environment. For example, a parked car may be added to or removed from the scene between the times that the recording and follower vehicles traverse the path. Finally, the follower may comprise an obstacle-avoidance sensor to account for obstructions that are added to the path. This sensor is typically not required in the preferred embodiment because, in comparison, it is reasonably safe to assume in a same-time setting that no obstructions appear in the short time interval after the lead vehicle passes but before the follower vehicle arrives at a particular location.

Current US Cross Reference Classification (3):
701/1

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